

**WHAT IS CLAIMED IS:**

1. A core structure of a heat exchanger comprising:

5 tubes in which a heat exchange medium flows;

corrugated fins adhering to said tubes to advance radiation of heat from said tubes; and

10 seat plates arranged opposite to each other with a predetermined space interposed therebetween and having said tubes and said corrugated fins arranged alternately therebetween, said seat plates being provided with connection portions having main body portions and wall portions slanted from the main body portions thereof toward said tubes and formed with tube  
15 holes through which said tubes are inserted to be fixed,

wherein the connection portions have vulnerable portions which are formed thinner than said seat plates and in series on the wall portions and absorb thermal stress of said seat plates against said tubes by bending.

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2. The core structure of the heat exchanger according to claim 1,

wherein the vulnerable portions are formed on at least one of positions between the main body portions and the wall portions and positions between  
25 the wall portions and the tube holes.